

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) The use
 - (i) of an alkaline medium,
 - (ii) of a first gel which comprises gelatin and phosphate ions, and
 - (iiia) of a second gel which is free of phosphate ions, the first layer of gel being covered with this second gel and/or
 - (iiib) of a medium containing calcium ions,for the production of a composition for the growth of apatite or/and dentine on tooth material.
2. (Original) The use as claimed in claim 1,
c h a r a c t e r i z e d i n t h a t
the alkaline medium employed is an alkaline solution or an alkaline gel.
3. (Currently Amended) The use as claimed in claim 1 ~~or 2~~,
c h a r a c t e r i z e d i n t h a t
the alkaline medium has a pH of 7.1 to 14, in particular of 7.5 to 10, and preferably of 8 to 9.

4. (Currently Amended) The use as claimed in ~~one of the preceding claims~~
claim 1,
characterized in that
the alkaline medium employed is 0.05 to 1N NaOH.
5. (Currently Amended) The use as claimed in ~~one of the preceding claims~~
claim 1,
characterized in that
the alkaline medium furthermore contains calcium ions.
6. (Currently Amended) The use as claimed in ~~one of the preceding claims~~
claim 1,
characterized in that
the first gel employed is a gelatin-glycerol gel.
7. (Currently Amended) The use as claimed in ~~one of the preceding claims~~
claim 1,
characterized in that
the first gel furthermore contains fluoride ions.
8. (Currently Amended) The use as claimed in ~~one of the preceding claims~~
claim 1,
characterized in that

the first gel has a pH of 2.0 to 6.0.

9. (Currently Amended) The use as claimed in ~~one of the preceding claims~~
claim 1,

c h a r a c t e r i z e d i n t h a t

the first gel further comprises at least one calcium phosphate compound.

10. (Original) The use as claimed in claim 9,

c h a r a c t e r i z e d i n t h a t

the first gel further comprises a calcium phosphate compound selected from
fluoroapatite, monetite, brushite, amorphous calcium phosphate and
hydroxylapatite.

11. (Currently Amended) The use as claimed in claim 9 ~~or 10~~,

c h a r a c t e r i z e d i n t h a t

the first gel further comprises fluoroapatite particles, especially spherical
fluoroapatite particles.

12. (Currently Amended) The use as claimed in ~~one of claims 9 to 11~~ claim
9,

c h a r a c t e r i z e d i n t h a t

the first gel contains 5 to 30% by weight of calcium phosphate compounds,
especially of fluoroapatite.

13. (Currently Amended) The use as claimed in ~~one of claims 9 to 12~~ claim 9,
characterized in that
the first gel contains spherical particles of calcium phosphate compounds,
especially spherical particles of fluoroapatite.
14. (Currently Amended) The use as claimed in ~~one of claims 9 to 13~~ claim 9,
characterized in that
the calcium phosphate compound are used as particles having an average
size of 5 to 50 μm , in particular of 10 to 20 μm .
15. (Currently Amended) The use as claimed in ~~one of the preceding claims~~ claim 1,
characterized in that
the second gel is free of fluoride ions.
16. (Currently Amended) The use as claimed in ~~one of the preceding claims~~ claim 1,
characterized in that
the second gel is selected from gelatin-glycerol gels, polysaccharide gels or
carboxymethyl-cellulose gels.

17. (Currently Amended) The use as claimed in ~~one of the preceding claims~~
claim 1,
c h a r a c t e r i z e d i n t h a t
the medium containing calcium ions employed is a solution containing
calcium ions or a gel containing calcium ions.
18. (Original) The use as claimed in claim 18,
c h a r a c t e r i z e d i n t h a t
no second gel (iiia) is employed in the case of the use of a gel containing
calcium ions.
19. (Currently Amended) The use as claimed in ~~one of the preceding claims~~
claim 1,
c h a r a c t e r i z e d i n t h a t
the medium containing calcium ions has a pH of 6 to 8.
20. (Currently Amended) The use as claimed in ~~one of the preceding claims~~
claim 1,
c h a r a c t e r i z e d i n t h a t
the tooth material is defatted, slightly etched or/and rinsed before the
application of the alkaline medium or/and before the application of the first
gel.

21. (Currently Amended) The use as claimed in ~~one of the preceding claims~~
claim 1,
c h a r a c t e r i z e d i n t h a t
the tooth material is human teeth or/and tooth enamel.
22. (Currently Amended) The use as claimed in ~~one of the preceding claims~~
claim 1,
c h a r a c t e r i z e d i n t h a t
the components (i), (ii) and (iiia) or/and (iiib) are intended for the treatment of
carious defects by remineralization.
23. (Currently Amended) The use as claimed in ~~one of the preceding claims~~
claim 1,
c h a r a c t e r i z e d i n t h a t
the tooth material is covered with a dentine layer or/and a protective apatite
layer.
24. (Currently Amended) A composition, in particular for use as claimed in
~~one of claims 1 to 12~~ claim 1, comprising
- a) an alkaline medium,
 - b) a first gel which comprises gelatin and phosphate ions, and
 - c1) a second gel which is free of phosphate ions, or/and

c2) a medium containing calcium ions.

25. (Currently Amended) A kit, in particular for use as claimed in ~~one of~~
~~claims 1 to 12~~ claim 1, comprising

- a) an alkaline medium,
- b) a first gel which comprises gelatin and phosphate ions,
- c1) a second gel which is free of phosphate ions, or/and
- c2) a medium containing calcium ions.

26. (Cancelled)

27. (Original) A process for the growth of apatite on tooth material, comprising
the steps

- (i) application of an alkaline medium,
 - (ii) application of a first gel which comprises gelatin and
phosphate ions, and
 - (iiia) application of a second gel, the first layer of gel being covered
with this second gel and/or
 - (iiib) application of a medium containing calcium ions,
- a building up of apatite on the surface of the tooth material being caused.

28. (Original) The use

- (i) of a first gel which comprises gelatin and phosphate ions, and

(iia) of a second gel which is free of phosphate ions, the first gel layer being covered with this second gel and/or

(iib) of a medium containing calcium ions,

for the production of a composition for the growth of apatite or/and dentine on tooth material, the first gel furthermore containing at least one calcium phosphate compound.